

FOREST CONTROL

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by CONTINUOUS INVENTORY

"Today I have grown taller from walking
with the trees."

...Karle Wilson

Milwaukee, Wis. September, 1964 No. 126

THE OVERALL SIGNIFICANCE OF PERMANENT PLOT DATA

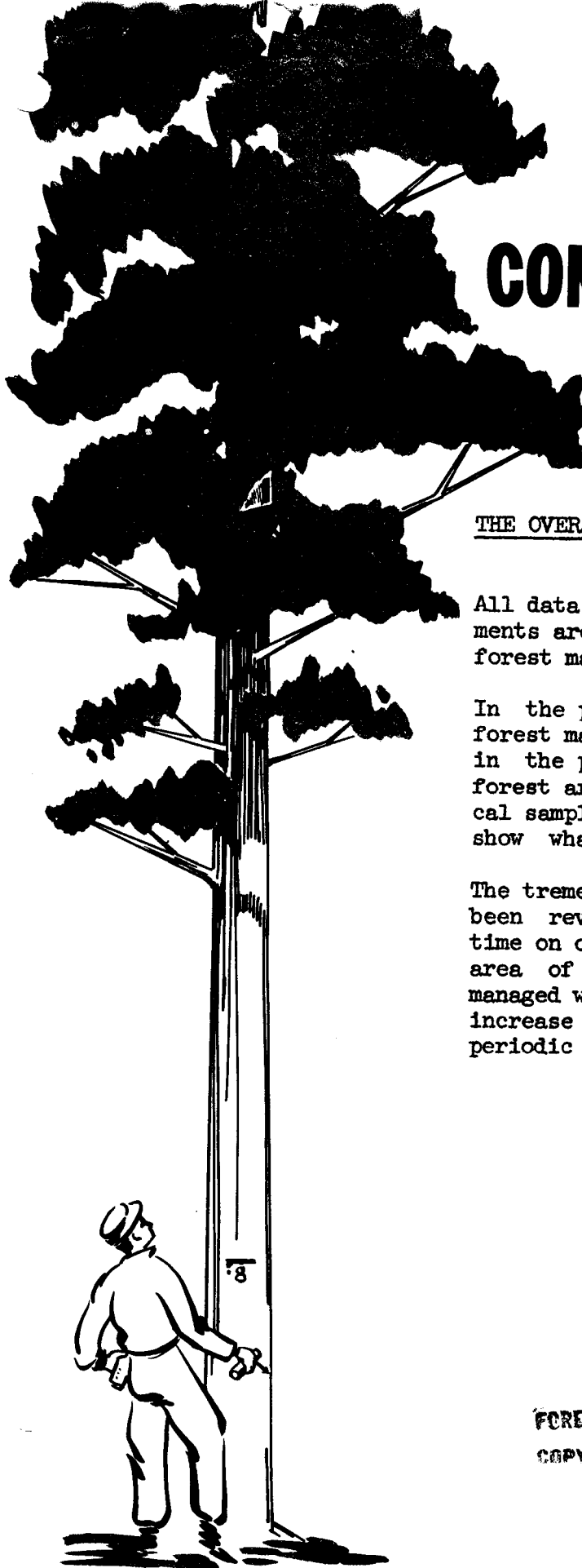
All data developed from permanent plot remeasurements are of great assistance as a guide to future forest management.

In the past the real significance of intensive forest management was often debatable. The steps in the process were not well understood for large forest areas. Now we have facts based on identical samples and covering a 15-year period which show what is actually happening in our forest.

The tremendous potential of forest management has been revealed in a relatively short period of time on our experimental forest. Our entire forest area of more than a quarter million acres can be managed with the same intensity and with the same increase in growth when the demand for total periodic allowable cut develops for all species.

John Hubbard
Forester, Research & Management
Minnesota & Ontario Paper Co.
Big Falls, Minnesota

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Sept. 15, 1964

FOREST MANAGEMENT IN MINIATURE
A SUCCESS AT MANDO

Have you ever thought how much better it is to look into your forest's future from a firm foundation of fact, than it is to try to catch unchecked visionary glimpses of what the future may bring?

You can get this foundation of fact in short order if you wish. It is merely necessary to set aside a small part of your total forest for experimental management in miniature.

Minnesota and Ontario Paper Company has done this on a block of mixed cover types near International Falls, Minnesota. A systematically spaced set of 820 fixed radius, tenth-acre plots has been established to measure natural and man-caused changes in the woods environment. The 1,571 acre area is stocked predominantly to pulpwood timber. These CFI samples, the Company points out, are periodically comparable with the computing process which has been in use over the years.

Mando has telescoped time with these permanent plots concentrated on less than 1% of their total forest. If mistakes are made in the treatment of this small area they are small mistakes. If the applications are good they may be shifted to the whole wide forest whenever economic conditions justify. The point is, Mando has an adequate and reliable measure of good and bad practices and experiences to guide future applications, and to assist management at technical, administrative and executive levels. The foresters are practicing intensive management in miniature, and the results are both informative and educational.

The central core of results for three 5-year measurement periods tells a wonderful tale of concentrated thought and action at Mando. These men know what they are about.

Permanent Plots Again Portray Progress in Forestry
Pulpwood Stands Improved at Mando

All Records are Cords Per Acre Per Year

<u>5-Year Growth Period Number</u>	<u>Increment</u>	<u>Ingrowth</u>	<u>Natural Mortality</u>	<u>Net Growth</u>
1948-53	.380	.092	.220	.252
1953-58	.376	.107	.151	.332
1958-63	.416	.198	.127	.487

The establishment of administrative areas for the study of forest management in miniature is a simple task but it demands precise techniques and records. Forest consultants will find it a productive field for their services. The Forest Service cooperates in these administrative studies as with CFI, for they require the installation of samples with bounded figures to guarantee repetitive and comparable records tree by tree and plot by plot. Our long experience in this work should be helpful to forest industries and forest consultants alike. State foresters will find these procedures useful on public lands. Harnessed to standard electronic data processing programs typical of CFI on large forest properties, the computing and compiling need close attention and careful planning. Forest management in miniature is nothing more than a diminutive CFI project for your guidance in the management of the forest.

CAL STOTT
Forester, Region 9
U. S. Forest Service

FOREST MANAGEMENT in MINIATURE

